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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,492	07/13/2005	Jae Dong Kim	DONG3001/REF/6694	7485
23364 BACON & TH	7590 01/23/2008 OMAS PLLC	EXAMINER		
625 SLATERS	LANE	XAVIER, VALENTINA		
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	,		3644	
	•	•	MAIL DATE	DELIVERY MODE
•			01/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		09/806,492	KIM, JAE DONG			
		Examiner	Art Unit			
		Valentina Xavier	3644			
	The MAILING DATE of this communication a		h the correspondence address			
Period for	• •	·				
WHIC - Exte after - If NC - Failu Anv	CORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING resions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory perious use to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re not will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status						
1)⊠	1) Responsive to communication(s) filed on 13 July 2005.					
2a)□	•—	2b)⊠ This action is non-final.				
3)						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
· —	5) Claim(s) is/are allowed.					
•	6) Claim(s) <u>1-4</u> is/are rejected.					
•	7) Claim(s) is/are objected to.					
8)[_]	Claim(s) are subject to restriction and	a/or election requirement.				
Applicat	tion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)[	The oath or declaration is objected to by the	Examiner. Note the attached	Office Action of form 1 10-102.			
Priority	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority docume					
	<ul><li>2. Certified copies of the priority docume</li><li>3. Copies of the certified copies of the priority docume</li></ul>					
	·		received in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachme	nt(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 4/13/2001.  Paper No(s)/Mail Date 4/13/2001.  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 – 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allred (US 4,752,791) in view of Logg (US 5,616031).

#### With regard to claim 1:

Allred discloses an aerial photography camera system for a helicopter comprising a camera (See Abstract) fixed on a certain position on a fuselage, a monitor (See Claim 1) for displaying images on a display (monitor – See Abstract), and a remote controller (See Claim 1).

Cameras with capabilities of displaying images on a monitor inherently have a recording device that records a frame or a sequence of frames that is displayed on a monitor since in order to be displayed on a monitor, the camera has to record the image(s) being displayed.

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Allred discloses a remote control (See Claim 1), but is silent on the location of the remote control controlling the camera. However, Logg discloses a system and method of shadowing an object in motion which comprises a helicopter that uses a button on the cyclic pitch lever to remotely control a weapon (cannon, missile - See Col. 9; Lines 17 – 25). Logg also discloses a collective stick that controls the altitude of the helicopter.

It would have been obvious to one having ordinary skill in the art to use the control system included on the cyclic and collective levers to control the camera/ recording device taught by Allred since these two levers are very well known to be constantly manned by the pilot and placing control buttons of a camera on these levers would enable the pilot to easily access and position the camera remotely.

## With regard to claim 2:

Allred as modified by Logg discloses the use of control buttons installed on the cyclic pitch lever. It fails to disclose the position on the cyclic pitch lever and the collective pitch lever where the control buttons (such as switching buttons and camera zoom control buttons) are located. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to place the buttons on any one of many locations such as the rear part of a grip of the cyclic pitch lever or the front part of the collective pitch lever since positioning the button in order to allow easy access for the user while operating the cyclic and collective pitch levers would decrease time of operation and increase efficiency and accuracy.

# With regard to claims 1/3, 2/3, and 4:

Allred as modified by Logg is silent on installing a remote controller on the control levers of a copilot's seat. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to additionally include remote controller for the camera on the copilot's control levers since the use of auxiliary controls for a copilot are very well known in the art and doing so would provide a contingent control mechanism for the camera in case of failure in the pilot's controls.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Valentina Xavier whose telephone number is (571) 272-9853. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on (571)272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VX

SUPERVISOR

EXAMINER